

## The Mobile Instrumentation Data Acquisition System (MIDAS)

The Mobile Instrumentation Data Acquisition System (MIDAS), developed by Sandia National Laboratories for the U.S. Department of Energy, provides on-site data acquisition of containers that transport radioactive materials during impact, puncture, fire, and immersion tests.



**MIDAS is a self-contained data acquisition facility in a 13.4-m (44 ft.) trailer, which is equipped with structural and thermal data acquisition systems.**

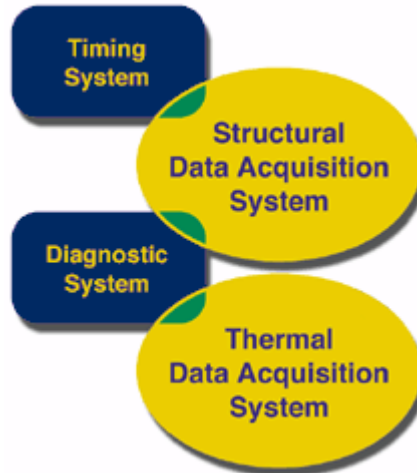
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### Overview

MIDAS is a self-contained, fully automated data acquisition facility equipped with structural and thermal data acquisition systems. It is capable of collecting package data from a variety of piezoresistive measurement devices. Some of the onboard self-diagnostic features include data analysis capabilities, graphical software interface and communications center. The major features of the MIDAS system enable it to collect information and to analyze and display acquired data shortly after an experiment.

**MIDAS structural and thermal data acquisition systems acquire data from measurement devices.**

**Diagnostic equipment verifies system performance. Other systems support MIDAS's data measurement capabilities.**



Quality assurance and documentation play an important part in the MIDAS program. A system documentation package is provided with the system, including computer software documentation, system diagrams and procedures, equipment specifications, calibration records, and operation and maintenance manuals. A record of equipment parameters and performance can be produced, providing a computer-generated audit trail. Trained MIDAS operating personnel are also provided with the system.

For more information, please go to the web site listed below:

<http://www.sandia.gov/tp/midas.htm>